

Course title	Genetics		
Term	前期 1st Half		
Credit(s)	1		
The main day		The main period	
Program/Department	Genetics Program		
Lecturers	Kuniaki Saito, Hitoshi Sawa and others		
成績評価区分 Grading Scale	A, B, C, Dの4段階評価 Four-grade evaluation		
レベル Level	Level 3		
力量 Competence	専門力 Academic expertise		

Instructor

Full name

* SAITO KUNIAKI

Outline	Basic concepts, approaches and techniques in Genetics will be outlined and discussed, focusing on organisms used in research. In addition, the lecture focuses on the advantages and disadvantages of research using each organism, the unique phenomena of each organism and the universal laws of genetics.
Learning objectives	1. To understand the historical background and the aim of Genetics 2. To understand the basic features of organisms and methods used in Genetics 3. To understand to what extent phenotypes are defined by genes, and the interplay between the genes and other factors
Grading policy	The grades will be A, B, C, and D, based on the student's understanding on the aspects presented in the above Course Objectives. The grades are mainly determined by the quality of the paper. The subject(s) of the paper must be one of the 3 aspects. The student's attitude at the classes is also considered to judge the level of his/her understanding. There is no criteria on the number of class the student must attend. If the student notifies the lecturer in charge (Dr.Saito, saitok@nig.ac.jp) when he/she cannot attend the class with the reason, it will be considered upon the judgement.
Lecture Plan	13:30-15:10 on Friday 1. 2024/05/10 : Kuniaki Saito : Introduction (basic knowledge on genetics and epigenetics) 2. 2024/05/17 : Hitoshi Sawa : Genetics of <i>C. elegans</i> 3. 2024/05/24 : Kuniaki Saito : Genetics of <i>D. melanogaster</i> 4. 2024/05/31 : Noriyoshi Sakai : Zebrafish genetics 5. 2024/06/7 : Keisuke Yonehara : Mammalian genetics 6. 2024/06/14 : Yutaka Sato : Plant genetics 7. 2024/06/21 : Hiroshi Mori : Genome informatics 8. 2024/06/28 : Shigehiro Kuraku : Comparative genomics approach in genetics
Location	Oral and Zoom: Seminar Room (B301), 3rd floor of Library in the National Institute of Genetics
Language	English
Textbooks and references	Genetics: From Genes to Genomes, 5th edition, Leland H. Hartwell, Michael L. Goldberg, Janice A. Fischer, Leroy Hood, Charles F. Aquadro
Notes for students of other programs	None in particular.
Contact for Course Inquiries	Academic Services Division of NIG: info-soken@nig.ac.jp